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Research Interests

Medicine in ancient Egypt; Egyptology in general, Ancient Religions, Magic and Daily Life, Archaeology of Egypt and the Middle East, Archeobotany, Osteology, Paleopathology, Forensic Anthropology, History of Medicine.

Education

Since October 2013 - *PhD candidate* at the Institut für Ägyptologie, Ludwig-Maximilians-Universität München
Working Title of Thesis: Green Osiris: explaining some aspects of ancient Egyptian medicine

Abstract

The research question in this dissertation is how ancient Egyptians explained the efficacy of a group of plants by associating them with the body of the god Osiris. Giving those plants god-like attributes in treating and curing ailments with this association. This dissertation answers also the question of why where these plants more frequent in medical and magical prescriptions, taking a look into their textual, iconographical, and symbolic association with Osiris. The answer is that religious beliefs may have served as a substitute support for scientific knowledge, filling the gaps when there were no technical instruments, chemical substances, or electronic media to prove anything. The method used in this research dissertation is the browsing of published original texts from ancient Egypt, earlier publications on medicine in ancient Egypt, detailed records about these plants' use, and also data from archaeological missions. The interpretation of excerpts of the original texts done by the author of this dissertation following previous publications (all cited where relevant) gives this work the link between ancient Egyptian thought and what science can establish today. While mentioning data collected in situ proves some of these plants existed in the territory and were used, besides nourishment, also as medical ingredients, the author aims to prove the link of their record in mythology to medical uses. The practical implications of this dissertation in the future may function as a basis for a posterior study on the uses of these plants throughout the history of medicine and the influence they performed in Western medicine, by transference of ancient Egyptian knowledge transpired in teachings at Alexandria, which was the centre of learning at the end of the Egyptian kingdom until the early centuries of the Christian Era.

October 2007 –September 2008

Master of Sciences in Biomedical and Forensic Techniques for Egyptology, Faculty of Life Sciences, University of Manchester, 2008
Title of Thesis: Oncology and infectious diseases in ancient Egypt, The Ebers Papyrus' Treatise on Tumors 857-877 and the cases found in ancient Egyptian human material
Supervisor: Rosalie David

October 2003 –June 2005

Master in Pre-Classical History and Culture, Faculty of Letters, University of Lisboa, 2008
Modules included: Ancient Egyptian, Hebrew, Ugaritic, Akkadian, History of Israel, Economy of Mesopotamia, and Prophecies in ancient Israel
Title of Thesis: Health and Medicine in Ancient Egypt; Magic and Science
Supervisor: Luis Manuel de Araújo

October 1995 – July 1996

BA Tourism Information
Modules included: Tourism Itineraries, History of Religions, and History of Politics.

September 1986 – July 1989

BA Hotel Management
Modules included: Hotel Management, Statistics, Tourism Commercial and Fundamentals (Law), English, French, Anthropology.

October 1983 – July 1986

High School Diploma in Humanities:
Major in History, other modules: English, Philosophy

Previous and other lines of work

1989 - 2003

Several positions in commercial firms, government departments and hotelier establishments.

Skills

Computing Skills

Microsoft Office
Operating Systems: Windows, Android
Digital photography

Language Skills

Fluent in Portuguese, English and French languages (speaking, reading, writing)
Good understanding of German, B.2 level, Goethe Institute (speaking, reading and writing)
Good understanding of Spanish and Italian (speaking, reading, and writing)
Basic knowledge of Arabic (speaking, reading, writing)

Other

Knowledge of research methodologies
Data and information collection for the *Torre de Palma Database* (biggest Roman Villa in the Iberian Peninsula) for the National Museum of Archaeology, Lisboa, Portugal, June-August 2006 under the direction of Maia Langley

References

Dr. Angelique Corthals

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524 West 59th Street,
Dep. of Sciences, Room 05.61.03 NB, New
York, NY 10019, USA
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Dr. Alain Touwaide

The Institute for the Preservation of
Medical Traditions, The Huntington
Library, Art Collections, and Botanical
Gardens, 1151 Oxford Road
San Marino, CA 91108, USA
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Professor Terry Brown

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Biotechnology, 131 Princess Street,
Manchester, M1 7DN, UK
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Extra-curricular education

Feb – Jun 2015 – **Mesopotamian Archaeology** (Dr. Juan Luís Montero Fenollós, Universidad de A Coruña), FCSH semester seminar, Universidade Nova, Lisboa

March 2013 – **Archaeobotanical Workshop** (Prof. René Cappere, Groningen University), Coimbra University

October 2012 to November 2012 – **History of Science**, (Prof. Carlos Fiolhais), Cultural Activities of El Corte Inglés, Lisboa

July 2012 – **Biological Anthropology II – Introduction to Paleopathology**, (Dr. Francisca Alves Cardoso, Dr. Sandra Assis), Faculty of Social and Human Sciences, Universidade Nova, Lisboa

November 2011 – **Egypt's Pharaohs: the king's role in ancient Egypt history through archaeology** seminars at Faculty of Social and Human Sciences, Universidade Nova, Lisboa

April 2011 – **Religious Ideas**, (Prof. José Anes), Cultural Department, El Corte Inglés, Lisboa, Portugal

March-June 2011 – **Egyptian Hieroglyphic Writing**, seminar, Faculty of Social and Human Sciences, Universidade Nova, Lisboa

February 2010 - **Ptolemaic Egypt**, National Archaeology Museum, Lisboa, Portugal

September 2009 – **Classical Islam Civilization: “Religion” and “State”**, Faculty of Human and Social Sciences, Universidade Nova, Lisboa

July 2009 - **Hieroglyphs**, (Dr. William Manley, Dr. José Perez-Accino), Bloomsbury Summer School, University College London

March 2009 – **Biological Anthropology**, National Archaeology Museum, Lisboa, Portugal

February to April 2009 – **Biblical Prophecies: Historical Realities and Theological Constructions**, (Prof. Francolino Gonçalves, École Biblique de Jerusalem), Catholic University of Lisbon

January 2008 – **ARCHAIA, Training Seminars on Research Planning, Characterization, Conservation and Management in**

Archaeological Sites, Copenhagen, Denmark

February 2007 – **Forensic Anthropology** (module - MSc in Forensic Studies), (Dr. Eugénia Cunha), Forensic Institute, Lisboa, Portugal

August 2006 and August 2005 – **Osteology** training seminars, National Archaeology Museum, Lisboa, Portugal

November 2005 - **Ancient Egyptian Myths** –Aberta University, Lisboa, Portugal

April 2005 – **Mummification in Ancient Egypt**, National Archaeology Museum, Lisboa, Portugal

March 2005 – **Archaeology in the Near East**, National Archaeology Museum, Lisboa, Portugal

October 2004 – **Hieroglyphic Writing**, Faculty of Letters, University of Lisboa, Portugal

March 2003 – **Egypt of the Pharaohs**, Aberta University, Lisboa, Portugal

Projects/Events' participations

Winter 2012

Member of the anthropological team working with the human remains found at TT37, Luxor West Bank, Egypt, under the direction of Dr. Francesco Tiradritti.

2006-2011

Member of Porto Mummies' Multidisciplinary Project, the study of two Egyptian mummies housed in the MHNFC (Museum of Natural History of the Faculty of Sciences in Porto, Portugal), collaborating in the diagnosis of the mummies' physical conditions, under the supervision of Professor Armando Coelho of the University of Porto.

February 2005-October2006

Participation in the organization of the II International Congress for Young Egyptologists, held at the Pharmacy Museum, Lisboa, under the supervision of Professor José das Candeias Sales, Professor Luis Manuel de Araújo and João Neto (Director of the Pharmacy Museum, in Lisboa).

Presentations (Conferences, Lectures, Classes)

Green Osiris: explaining some aspects of ancient Egyptian medicine, International Conference "Rethinking Osiris", March 26-27, 2019, Florence (Italy).

Cancer in Ancient Egypt, International Colloquium on Paleo-Oncology the Antiquity of Cancer, European Society for the History of Oncology and the Hellenic Medical Society-UK, The Hellenic Centre, London, U.K., 16 November 2018

Disease and the ancient world - establishing a connection between some plants as ingredients for treatments in ancient Egypt (circa 3000 BCE-700) and their 'divine' origin, International Symposium, "Disease and the Ancient World", Green Templeton College, University of Oxford, 21-23 September 2017.

A small Osiris coffin stored at the SMAEK, München, CIPEG workshop, Bologna, 10-13 July 2016

Green Osiris, a divine intervention in ancient Egypt, seminar 'Flora Trade between Egypt and Africa in antiquity', Naples University (Italy), 13th of April 2015 - The seminar has been planned in the framework of the ATrA Research Project (African Transitions: Linguistics and Cultural areas of transitions in Africa www.africantransitions.it).

The Resources of Porto's University Natural History Museum; a glimpse over neglected and missing items from the Egyptian Collection – annual CIPEG meeting, Copenhagen, August 26-29, 2014

Ancient Egyptian medicine classes, by invitation of Prof. Maria Helena Trindade Lopes, History Department at the Faculty of Social and Human Sciences, Universidade Nova, Lisboa

(Carvalho, Malgora, Veiga), **Tales from a robbery: brief report on three mummies from Harwa's Tomb (TT37), el- Asasif, Egypt**, 8th WCMS, Museu Nacional/UFRJ, Rio de Janeiro, Brazil, August 6-9, 2013

(Carvalho, Malgora, Veiga), **Human remains found in the funerary complex of Harwa (TT 37) and Akhimenru (TT 404), el-Asasif, Egypt: first impressions**, 8th WCMS, Museu Nacional/UFRJ, Rio de Janeiro, Brazil, August 6- 9, 2013

Human Remains Found at the Tomb of Harwa, TT 37: A Preliminary Survey, Conference on the Bioarcheology of Ancient Egypt, 31 January - 2 February 2013, American University in Cairo

Ancient Egyptian Medicine, undergraduate class, Faculty of Social and Human Sciences, Universidade Nova, Lisboa, December 6th, 2012

The Ebers Papyrus and the Treaty of Tumors, Seminar on ancient scientific texts, Faculty of Sciences, Lisboa, November 16th, 2012

A rescue from oblivion, CIPEG meeting, Bruxelles, 25-28 September 2012

What science and history can learn from human remains, Mummification Museum, Luxor, Egypt, January 29th, 2012

What science and history can learn from human remains, International Symposium on Ancient Corpse, Changsha, China, September 16-20, 2011 (read by Dr. Claire Derriks)

Some Ethics and Techniques for Collecting and Conserving Human Remains, CIPEG meeting, Poznan, August 31-September 4, 2011

Osiris Green, Lecture given to Centro Studi Archeologia Africana, Milano, March 16th, 2011

Osiris Green, Lecture given to Egyptology Scotland Society, Glasgow, January 15th, 2011

An overview of the Egyptian Collection of the National Museum of Archaeology in Lisboa (MNA), Portugal, with a brief reference to ongoing research projects, CIPEG (International Committee for Egyptology) 2010, "New Collections and News from the Collections", Montepulciano, August 19th – 23rd, 2010

Osiris 'green; his body represented in medicinal plants, Current Research in Egyptology XI, Leiden, January 5-8th, 2010

Oncology and infectious diseases in ancient Egypt: The Ebers Papyrus' Treatise on Tumors 857-877 and the cases found in ancient Egyptian human material, (Poster) Mummies and life sciences, 1st Bolzano mummy congress, March 19– 21 2009

Oncology and infectious diseases in ancient Egypt: The Ebers Papyrus' Treatise on Tumors 857-877 and the cases found in ancient Egyptian human material, National Geographic Society, History of the Medicine Group, Lisboa, Portugal, January 29, 2009

The precursor of oncology and infectious diseases, The Ebers Papyrus' Treatise on Tumours, 857-877 and the Phyto-pharmacopeia prescribed, The Pharmacy and Medicine in ancient Egypt Conference, Manchester, September 1-3, 2008.

Conservation of Human Remains, Manchester Museum **Summer School** organized by the Manchester Museum and the KNH-Centre for Biomedical Egyptology, June 23-27, 2008.

A Special Gift from I World War, an Egyptian Mummy 3D Multidisciplinary Analysis, National Research Centre Cairo, April 22nd, 2008.

A Special Gift from I World War, an Egyptian Mummy 3D Multidisciplinary Analysis, Current Research in Egyptology IX, Manchester, January 9-11th, 2008.

Preliminary Research on MNA E40, Current Research in Egyptology VIII, Swansea, April 2007.

To Prevent, Treat and Cure Love in Ancient Egypt, II International Congress for Young Egyptologists, Lisboa, October 2006.

Magic in Medicine in ancient Egypt, IV International Congress for Egyptology, Budapest, August 2006.

Magic in Medicine in ancient Egypt, Current Research in Egyptology VII, Oxford, April 2006.

Health in ancient Egypt, Current Research in Egyptology VI, Cambridge, January 2005.

Books

Health and Medicine in ancient Egypt; magic and science, (2009), BAR (British Archaeological Reports), Archaeopress. Oxford, 80 pages

Oncology and infectious diseases in ancient Egypt: the Ebers Papyrus' Treatise on Tumors 857-877, (2009), VDM Publishing House Ltd., 100 pages

Articles

Cancer in ancient Egypt, a new diagnosis, a very old pathology, *Horus, Boletín Egiptológico I*, Sociedad de Estudios Egiptológicos de Chile, 2014, Crann Editores, Santiago de Chile, p. 61-70 .

A Manual of Instructions for a Better Afterlife, formerly known as the Book of the Dead, 2012, *Abgadiyat*, 7, Bibliotheca Alexandrina Calligraphy Center, p. 13-25.

Studying Mummies and Human Remains: Some Current Developments and Issues, *Journal of the Washington Academy of Sciences, Summer 2012 Issue*, Washington, D.C, p.1-22.

Some prevalent pathologies in ancient Egypt, 2012, *Hathor – Studies of Egyptology I*, Instituto Oriental, Faculdade de Ciências Sociais e Humanas da Universidade Nova, Lisboa, p. 63-83.

The Institute for the Preservation of Medical Traditions, Smithsonian Institution, Washington, D.C. (web review), *Res Antiquitatis* 2, 2011, p. 311-319.

Poking into medicine in ancient Egypt, 2011, *i-Medjat*, 7, Egyptological journal edited by the Unité de Recherche-Action Guadeloupe (UNIRAG), p.14-18, <http://www.culturediff.org/english/iMedjat7.htm>

Hepatoscopia, *GE-Jornal Português de Gastreenterologia*, Mar-Apr. 2011, vol. 18, n. 3, Lisboa, p. 143-144, <http://www.spg.pt/publicacoes/?imc=16n&fmo=pa&edicao=553&pub=21>

O Fígado no antigo Egipto, *Revista da Ordem dos Médicos*, n. 65, Lisboa, February 2006., p. 50-52, <http://www.apef.com.pt/links/?imr=25&d=69>

Conference Papers

Green Osiris: explaining some aspects of ancient Egyptian medicine, International Conference “Rethinking Osiris”, March 26-27, 2019, Florence, SANEM series (*Studies on the Ancient Near East and the Mediterranean*) forthcoming.

A small Osiris coffin stored at the SMAEK, München, CIPEG workshop, Bologna, 10-13 July 2016, *CIPEG Journal*, forthcoming.

Opium: was it used as a recreational drug in ancient Egypt? Micheli, I., ed., (2016), *Proceedings of the ATRA closing workshop - Trieste*, May 25-26th, 2016, Trieste: EUT, p. 199-215.

A rescue from oblivion, *Collections at Risk: New Challenges in a New Environment*, edited by Claire Derriks, Material and Visual Culture of Ancient Egypt, 4, Lockwood Press, p. 131-137.

(Carvalho, Malgora, Veiga), *Tales from a robbery: brief report on three mummies from Harwa's Tomb (TT37)*, *el- Asasif, Egypt, Proceedings from the 8th WCMS*, Museu Nacional/UFRJ, Rio de Janeiro, Brazil, August 6-9, 2013, forthcoming

(Carvalho, Malgora, Veiga), *Human remains found in the funerary complex of Harwa (TT 37) and Akhimenru (TT 404)*, *el-Assasif, Egypt: first impressions, Proceedings from the 8th WCMS*, Museu Nacional/UFRJ, Rio de Janeiro, Brazil, August 6- 9, 2013, forthcoming

The precursor of oncology and infectious diseases, The Ebers Papyrus' Treatise on Tumors, 857-877 and the Phyto-pharmacopeia prescribed, in BAR S2141 2010, Pharmacy and Medicine in Ancient Egypt *Proceedings of the conferences held in Cairo (2007) and Manchester (2008)*, Oxford, p. 142-146

To Prevent, Treat and Cure Love in Ancient Egypt, Proceedings of the II International Congress for Young Egyptologists, Lisboa, November 2009 ((digital version, ISBN 978-989-8068-07-1, Centro de História (Faculdade de Letras da Universidade de Lisboa,

2010), p. 453-465).

Preliminary Research on MNA E40, Annals of the Sergiu Al-George Institute, Institutul de Studii Orientale, Vol. XII-XVI, 2003-2007, Bucharest, p. 41-53, 2008

Preliminary Research on MNA E40, Proceedings from Current Research in Egyptology VIII, 2007, Oxbow, March 2008, p. 141-149.

Grants

Promovierendenförderung GCCW (Global Cultures - Connecting Worlds) Ludwig-Maximilians-Universität München, International Conference "Rethinking Osiris", March 26-27, 2019, Firenze, Italia.

Promovierendenförderung GCCW (Global Cultures - Connecting Worlds) Ludwig-Maximilians-Universität München – Oxford International Symposium, "Disease and the Ancient World", Green Templeton College, University of Oxford, 21-23 September 2017

Promovierendenförderung GCCW (Global Cultures - Connecting Worlds) Ludwig-Maximilians-Universität München – Egypt research trip - November 2015

University of Manchester Bursary (partial funding for University fees of MsC) 2007 - 2008

FCT (Foundation for Science and Technology, Portugal), Travel Grant for presentation at Current Research in Egyptology VII, Oxford, April 2006

Other Affiliations

ICOM individual member providing knowledge on ancient Egyptian artefacts (2016-current)

Assistant Researcher, Centre for History, Faculty of Letters, University of Lisboa, Portugal (September 2019-current)